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DISPENSER CLOSURE AND CONTAINER

George M. Davis, Rochester, N.Y., assignor to Dygert & Stone, Inc., Rochester, N.Y., a corporation of New York

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14 Claims. (Cl. 222-480)

This invention relates to a container and a dispenser closure member, and particularly to a closed container openable at the top and carrying a closure member that is adapted for placement over the opened top for dispensing the contents of the container.

The container and closure member of the present invention can be adapted to many purposes and are not limited to any particular type of container or to containers used for a particular purpose. However, the invention is well suited to the packaging and dispensing of spices and will be described in relation to such use, although it should be understood that other uses, and containers for other purposes are within the spirit and scope of the invention.

Conduit or spice containers in the past have been made of metal and have been both expensive to manufacture and inconvenient to open and use. In previous spice containers a dispensing aperture was partially cut out in the metal top, and the user was required to punch out this aperture with a spoon. Because of such a partial cut-out, previous spice containers were not tightly sealed and some of the aroma or fragrance of the spices in the containers escaped between the time of packaging and the time of purchase by the user.

A metal slide was provided on previous spice cans for covering or uncovering the dispensing aperture. Such a slide was inconvenient to operate, expensive to manufacture, required assembly of a separate part in the making of the complete container, and did not closely cover the dispensing apertures so as to prevent loss of spice fragrance during the period of use of the container.

It is an object of this invention to overcome these deficiencies in previous spice containers and to provide an improved spice container and dispenser closure member that is economical to manufacture, convenient to use, and effective in sealing in and preserving the fragrance of packaged spices.

Another object of the invention is to use economical material in making a lightweight spice container that seals and protects packaged spices and that has a dispenser closure member that is disposable with the container and yet rugged, convenient, functional, attractive, economical, and effective in closing dispenser apertures as well as in dispensing spices.

Another object of the invention is to package spices in closely sealed paper or cardboard containers, and to provide a disposable dispenser closure member with each container for closing off and dispensing the contents from the container after the container is torn open by the user.

Another object of the invention is to mold in one-piece a plastic closure member for a spice container that is openable by the user.

Another object of the invention is to package spices in a container having two closure structures one of which seals the container until it reaches the consumer, such sealing closure being destroyed when the container is opened, and the other closure member being carried on the container for use after the container is opened and being adapted for dispensing spices from the container.

Other objects of the invention will be apparent hereinafter from the specification and from the recital of the appended claims. To these and other ends, the invention resides in certain improvements and combinations of

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parts, all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings:

FIG. 1 shows a top plan view of a cover flap for a dispenser closure according to the invention;

FIG. 2 shows a top plan view of the base portion of a dispenser closure according to the invention;

FIG. 3 shows a cross section of the cover flap of FIG. 1 taken along the line 3-3;

FIG. 4 shows a cross section of the base portion of FIG. 2 taken along the line 4-4; such base portion being carried on a sealed spice container also shown in cross section;

FIG. 5 shows the cover flap as sectioned for FIG. 3 secured to the base portion as sectioned in FIG. 4 to form a complete dispenser closure which is fixed to an opened spice container; and

FIG. 6 shows an exploded view of a spice container, the top removed from the container, and a dispenser closure for the container according to the invention.

Generally, the invention resides in a spice container of rendable material such as cardboard or paper that is torn open by the user and a dispenser closure member that is carried on the container before opening and is fixed over the opening in the container for closing the opening and dispensing spices.

The container or box 10 shown in FIGS. 4-6 is preferably formed of paper or cardboard, but can be formed of other materials that are manually rendable so that an opening can be made such as by manually tearing the container 10 along a line of weakness. Container 10 is adapted to cooperate with dispenser closure 12 as will be described hereinafter. Otherwise container 10 is a simple box made in any of a number of well known ways. It is preferably tightly sealed for preserving the fragrance of spices and is rugged enough to withstand normal spice container handling.

The dispenser closure member 12 will be described briefly and then the cooperation between container 10 and dispenser closure 12 will be described.

Dispenser closure 12 is formed of a base portion 13 shown in FIG. 2 and a cover flap portion 14 shown in FIG. 1 and having integrally hinged flaps 19 and 20. As shown in FIGS. 5 and 6, cover flap portion 14 is secured to base portion 13 to form the complete dispenser closure 12.

Cover flap portion 14 together with base portion 13 can be molded in a single piece of any of a variety of moldable or plastic materials. A preferred material for one piece molding of dispenser closure 12 is polypropylene because of its ability to form a thin hinge connection that can be repeatedly bent or flexed without breaking or cracking. In a preferred method of molding dispenser closure 12, cover flap portion 14 is molded alongside base portion 13 and connected to base portion 13 by a thin, longitudinal hinge. After molding, cover flap portion 14 is folded over base portion 13 and secured to the latter by forcing deformable projections 15 of cover flap portion 14 through apertures 16 in base portion 13 for a snap fit best illustrated in the cross section view of FIG. 5. Cover flap portion 14 could also be cemented or fused to base portion 13. After cover flap portion 14 is secured to base portion 13, the thin hinge connecting them is broken to allow movement of flaps 19 and 20. This can be done soon after the molding operation during the manufacture of the dispenser closure or can be left to the ultimate user to accomplish. The longitudinal hinge connecting cover flap portion 14 and base portion 13 can be thin enough so that it is broken when cover flaps 19 and 20 are manually raised from base portion 13.

As shown in FIG. 2, base portion 13 preferably has two